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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	DEC 01	ChemPort single article sales feature unavailable
NEWS 3	JUN 01	CAS REGISTRY Source of Registration (SR) searching enhanced on STN
NEWS 4	JUN 26	NUTRACEUT and PHARMAML no longer updated
NEWS 5	JUN 29	IMSCOPROFILE now reloaded monthly
NEWS 6	JUN 29	EPFULL adds Simultaneous Left and Right Truncation (SLART) to AB, MCLM, and TI fields
NEWS 7	JUL 09	PATDPAFULL adds Simultaneous Left and Right Truncation (SLART) to AB, CLM, MCLM, and TI fields
NEWS 8	JUL 14	USGENE enhances coverage of patent sequence location (PSL) data
NEWS 9	JUL 27	CA/CAplus enhanced with new citing references
NEWS 10	JUL 16	GBFULL adds patent backfile data to 1855
NEWS 11	JUL 21	USGENE adds bibliographic and sequence information
NEWS 12	JUL 28	EPFULL adds first-page images and applicant-cited references
NEWS 13	JUL 28	INPADOCDB and INPAFAMDB add Russian legal status data
NEWS 14	AUG 10	Time limit for inactive STN sessions doubles to 40 minutes
NEWS 15	AUG 17	CAS REGISTRY, the Global Standard for Chemical Research, Approaches 50 Millionth Registration Milestone
NEWS 16	AUG 18	COMPENDEX indexing changed for the Corporate Source (CS) field
NEWS 17	AUG 24	ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
NEWS 18	AUG 24	CA/CAplus enhanced with legal status information for U.S. patents

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                                                           ENTRY    SESSION
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FILE COVERS 1907 - 8 Sep 2009  VOL 151 ISS 11
FILE LAST UPDATED: 7 Sep 2009  (20090907/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Jun 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Jun 2009

CAplus now includes complete International Patent Classification (IPC)
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This file contains CAS Registry Numbers for easy and accurate
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information.  This enhancement may impact record import into
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to NEWS 9.

=> s US20070096082/pn
L1            1 US20070096082/PN

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L1   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2009 ACS on STN
AN   2005:493642  CAPLUS
DN   143:27358
TI   Polymerizable aromatic diamines compounds and conjugated oligomers of
     polymers based thereon
IN   Gaynor, Scott; Inbasekaran, Michael; O'Brien, James J.; Welsh, Dean M.
PA   Dow Global Technologies, Inc., USA
SO   PCT Int. Appl., 37 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
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PI   WO 2005052027       A1     20050609    WO 2004-US35221        20041025
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            LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
            NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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        RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
            AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
            EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
            SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
            SN, TD, TG
    GB 2424897            A      20061011    GB 2006-11893          20041025
    GB 2424897            B      20080521
    DE 112004002204       T5     20061026    DE 2004-112004002204   20041025
    CN 1886443            A      20061227    CN 2004-80033957       20041025
    JP 2007511636         T      20070510    JP 2006-539542         20041025
    US 20070096082        A1     20070503    US 2006-579341         20060824 <--
PRAI US 2003-520596P      P      20031117
    WO 2004-US35221       W      20041025
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OS   MARPAT 143:27358
RE.CNT  3     THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


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                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     3.99       4.65

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STRUCTURE FILE UPDATES:    7 SEP 2009  HIGHEST RN 1181105-91-8
DICTIONARY FILE UPDATES:   7 SEP 2009  HIGHEST RN 1181105-91-8

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=> tra ll l- rn
REQUESTED FIELD CODE NOT PRESENT IN ANSWER(S) SPECIFIED.

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L1             1 S US20070096082/PN

     FILE 'REGISTRY' ENTERED AT 13:56:43 ON 08 SEP 2009

     FILE 'CAPLUS' ENTERED AT 13:56:48 ON 08 SEP 2009

     FILE 'REGISTRY' ENTERED AT 13:56:48 ON 08 SEP 2009

=> tra l1 1- rn
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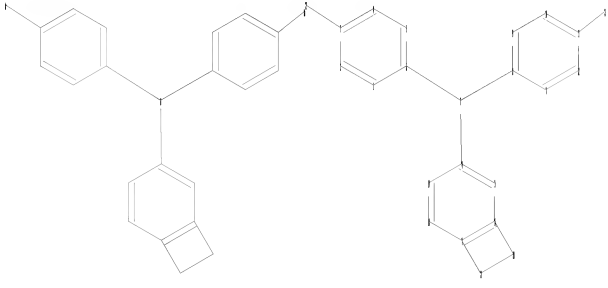

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7  22  23
ring nodes :
1  2  3  4  5  6  8  9  10  11  12  13  14  15  16  17  18  19  20  21
chain bonds :
3-22  6-7  7-8  7-14  11-23
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  8-9  8-13  9-10  10-11  11-12  12-13  14-15  14-19
15-16  16-17  16-20  17-18  17-21  18-19  20-21
exact/norm bonds :
6-7  7-8  7-14  16-20  17-21  20-21
exact bonds :
3-22  11-23
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6  8-9  8-13  9-10  10-11  11-12  12-13  14-15  14-19
15-16  16-17  17-18  18-19


Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  8:Atom  9:Atom  10:Atom
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L2              STR
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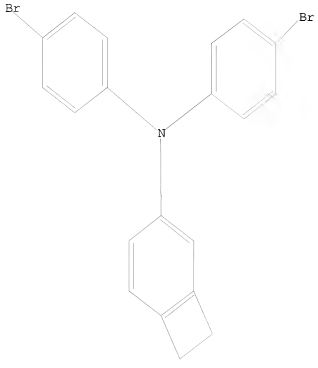


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SAMPLE SCREEN SEARCH COMPLETED -       79 TO ITERATE

100.0% PROCESSED       79 ITERATIONS                                 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          1047 TO     2113
PROJECTED ANSWERS:                0 TO        0

L3            0 SEA SSS SAM L2

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FULL SCREEN SEARCH COMPLETED -     1725 TO ITERATE

100.0% PROCESSED     1725 ITERATIONS                                 4 ANSWERS
SEARCH TIME: 00.00.01
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L4            4 SEA SSS FUL L2

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                                                ENTRY    SESSION
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FILE COVERS 1907 - 8 Sep 2009  VOL 151 ISS 11
FILE LAST UPDATED: 7 Sep 2009  (20090907/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Jun 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Jun 2009

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=> s l4
L5            5 L4

=> d l5 abs ibib hitstr 10
      5 ANSWERS ARE AVAILABLE.  SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):end

=> d l5 abs ibib hitstr 1-
YOU HAVE REQUESTED DATA FROM 5 ANSWERS - CONTINUE? Y/(N):y

L5   ANSWER 1 OF 5  CAPLUS  COPYRIGHT 2009 ACS on STN
AB   The compns. comprise (A) light-emitting polymers and (B) metal alkoxides.
     The devices have light-emitting layers of the compns. between anodes and
     cathodes.  The devices show improved lifetime.
ACCESSION NUMBER:         2008:800510  CAPLUS
DOCUMENT NUMBER:          149:115329
TITLE:                    Light-emitting polymer compositions and light-emitting
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devices using them
INVENTOR(S): Uetani, Yasunori
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008150516	A	20080703	JP 2006-341037	20061219
PRIORITY APPLN. INFO.:			JP 2006-341037	20061219

IT 1029851-65-7P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(light-emitting polymer compns. containing metal alkoxides for long-lifetime LED)
RN 1029851-65-7 CAPLUS
CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)-, polymer with N,N-bis(4-bromophenyl)-4-(1-methylpropyl)benzenamine and 2,2'-(9,9-dioctyl-9H-fluorene-2,7-diyl)bis[1,3,2-dioxaborolane] (CA INDEX NAME)

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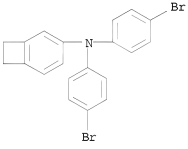
CRN 852534-20-4
CMF C20 H15 Br2 N



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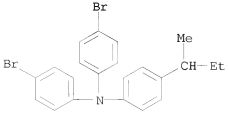

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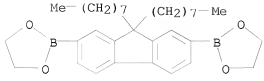
CRN 210347-49-2
CMF C33 H48 B2 O4



L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
AB The compns. contain conjugated polymers having ≥1 repeating units chosen from (un)substituted fluorenediyl, (un)substituted benzofluorenediyl, (un)substituted dibenzofuranediyl, (un)substituted dibenzothiophenediyl, (un)substituted carbazolediyl, (un)substituted thiophenediyl, (un)substituted furanediyl, (un)substituted phenoxazinediyl, (un)substituted pyrroledi yl, (un)substituted benzothiadiazoledi yl, (un)substituted phenylenevinylenedi yl, (un)substituted thienylenevinylenedi yl, and (un)substituted triphenylamined iyl, and Q1OAr1Ar2Ar3OQ2 [Ar1-Ar3 = C1-18 alkyl-substituted cyclohexane-1,4-diyl, C1-18 alkyl-substituted cyclohexene-3,6-diyl, C1-18 alkyl-substituted 1,4-phenylene, etc.; Q1, Q2 = monovalent group bearing oxirane end group, alkali metal, H, C1-18 alkyl, oxetanyl, (meth)acryloyl]. The compns. have good charge transporting and injecting properties. Thus, a composition containing conjugated polymer having (substituted) fluorenediyl and (substituted) phenoxazinediyl repeating units, and 1-(3-methyl-4-oxiranylmethoxyphenyl)-4-(4-oxiranylmethoxyphenyl)-1-cyclohexene was applied to an emitter layer of an organic electroluminescent device.

ACCESSION NUMBER: 2008:699237 CAPLUS
DOCUMENT NUMBER: 149:20818
TITLE: Conjugated polymer compositions, and organic electroluminescent devices and thin-film solar cells using them
INVENTOR(S): Uetani, Yasunori; Tanaka, Shinya; Fujiwara, Atsushi
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 17pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008133346	A	20080612	JP 2006-319694	20061128

PRIORITY APPLN. INFO.: JP 2006-319694 20061128
OTHER SOURCE(S): MARPAT 149:20818
IT 1029851-65-7P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(conjugated polymer compns. having good charge transporting and injecting properties for organic electroluminescent devices and thin-film solar cells)
RN 1029851-65-7 CAPLUS
CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)-, polymer with N,N-bis(4-bromophenyl)-4-(1-methylpropyl)benzenamine and 2,2'-(9,9-dioctyl-9H-fluorene-2,7-diyl)bis[1,3,2-dioxaborolane] (CA INDEX

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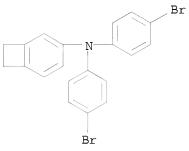

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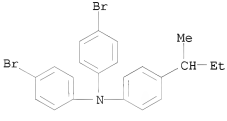

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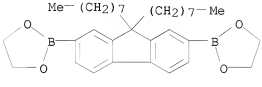

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
AB Disclosed is an organic electroluminescent device comprising electrodes composed of an anode and a cathode, a 1st organic layer arranged between the electrodes in contact with or close to the anode and containing a hole transporting polymer compound, and a 2nd organic layer arranged between the 1st organic layer and the cathode in contact with the 1st organic layer and containing
an electron transporting polymer compound This organic electroluminescent device is characterized in that the hole transporting polymer compound and the electron transporting polymer compound are defined by specific

parameters, and at least 1 of the 1st organic layer and the 2nd organic layer contains a light-emitting material defined by a specific parameter. The organic electroluminescent device is also characterized by emitting light of a specific color from the 1st organic layer or the 1st organic layer and the 2nd organic layer. This organic electroluminescent device is excellent in luminous efficiency and driving voltage.

ACCESSION NUMBER: 2008:352508 CAPLUS
DOCUMENT NUMBER: 148:342099
TITLE: Organic electroluminescent device
INVENTOR(S): Yamada, Takeshi
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan; Sumation Co., Ltd.
SOURCE: PCT Int. Appl., 47pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2008098619	A	20080424	JP 2007-225588	20070831
EP 2063473	A1	20090527	EP 2007-807412	20070910
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KR 2009084814	A	20090805	KR 2009-707366	20070910
US 20090212693	A1	20090827	US 2009-440626	20090326

PRIORITY APPLN. INFO.: JP 2006-249183 A 20060914
WO 2007-JP68008 W 20070910

IT 1010432-21-9
RL: TEM (Technical or engineered material use); USES (Uses)
(organic electroluminescent device)
RN 1010432-21-9 CAPLUS
CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)-, polymer with N,N-bis(4-bromophenyl)-4-(2-methylpropyl)benzenamine and 2,2'-(9,9-dioctyl-9H-fluorene-2,7-diyl)bis[1,3,2-dioxaborolane] (CA INDEX NAME)

CM 1

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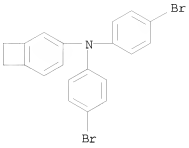
CMF C20 H15 Br2 N



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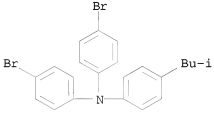

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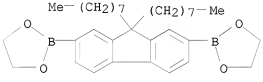

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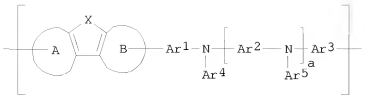
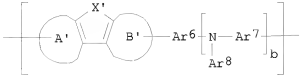
L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
GI



I



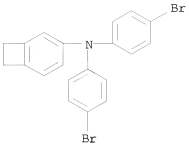
II

AB The transistors have organic semiconductor layers containing macromols. having repeating unit I and II [Ar1-Ar3, Ar6, Ar7 = arylene, bivalent heterocyclic ring; Ar4, Ar5, Ar8 = aryl, monovalent heterocycle; ring A, A', B, B' = aromatic ring; X, X' = O, S, CR1R2, SiR3R4, NR5 [R1-R5 = alkyl(oxy), alkylthio, halo, cyano, etc.; a, b = 0, 1]]. The transistors are useful for driving elements of flat panel displays, for instance.

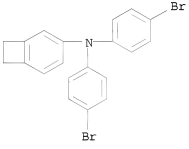
ACCESSION NUMBER: 2007:1421281 CAPLUS
DOCUMENT NUMBER: 148:67501
TITLE: Organic thin-film transistors having prescribed polyarylene-polyamines and showing low threshold voltage
INVENTOR(S): Ueda, Masato
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 17pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007324280	A	20071213	JP 2006-151273	20060531
PRIORITY APPLN. INFO.:			JP 2006-151273	20060531

IT 852534-20-4P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(organic thin-film transistors having prescribed polyarylene-polyamines and showing low threshold voltage)
RN 852534-20-4 CAPLUS
CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)- (CA INDEX NAME)

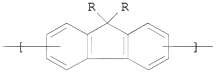


IT 852534-20-4DP, polymers
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(organic thin-film transistors having prescribed polyarylene-polyamines and showing low threshold voltage)
RN 852534-20-4 CAPLUS
CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
GI



I

AB The crosslinkable substituted fluorene compound I (R = inert substituent, a monovalent crosslink forming group, a polyvalent crosslink forming group) is a monomer for preparing oligomers and polymers, which are useful for forming films, coatings and multilayer electronic devices, especially, electroluminescent devices.

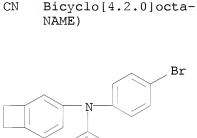
ACCESSION NUMBER: 2005:472210 CAPLUS
DOCUMENT NUMBER: 143:8538
TITLE: Crosslinkable substituted fluorene compounds and their conjugated oligomers or polymers
INVENTOR(S): Inbasekaran, Michael; Yu, Wanglin
PATENT ASSIGNEE(S): Dow Global Technologies Inc., USA
SOURCE: PCT Int. Appl., 31 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005049689	A2	20050602	WO 2004-US36076	20041025
WO 2005049689	A3	20050721		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
GB 2424896	A	20061011	GB 2006-11892	20041025
GB 2424896	B	20080227		
CN 1882632	A	20061220	CN 2004-80033898	20041025
DE 112004002221	T5	20070118	DE 2004-112004002221	20041025
JP 2007528916	T	20071018	JP 2006-539570	20041025
KR 2006127853	A	20061213	KR 2006-709478	20060516
US 20070102695	A1	20070510	US 2006-579531	20060901

PRIORITY APPLN. INFO.: US 2003-520597P P 20031117
WO 2004-US36076 W 20041025

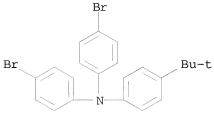
IT 852534-20-4P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(crosslinkable substituted fluorene conjugated oligomers or polymers for films, coatings and multilayer electronic devices)
RN 852534-20-4 CAPLUS
CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)- (CA INDEX NAME)



IT 852534-23-7P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(crosslinkable substituted fluorene conjugated oligomers or polymers for films, coatings and multilayer electronic devices)
RN 852534-23-7 CAPLUS
CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)-, polymer with N,N-bis(4-bromophenyl)-4-(1,1-dimethylethyl)benzenamine and 2,2'-[9,9-bis[(4-ethenylphenyl)methyl]-9H-fluorene-2,7-diyl]bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)

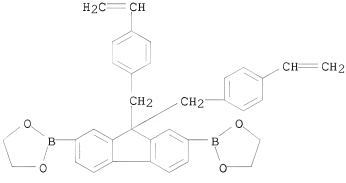
CM 1

CRN 852534-22-6
CMF C22 H21 Br2 N



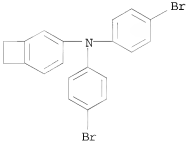
CM 2

CRN 852534-21-5
CMF C35 H32 B2 O4



CM 3

CRN 852534-20-4
CMF C20 H15 Br2 N



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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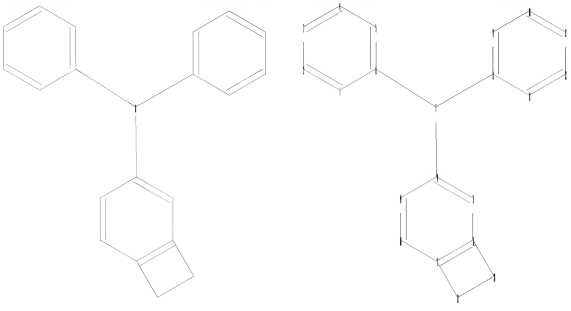
Uploading C:\Program Files\STNEXP\Queries\10579341\10579341-compound 2.str

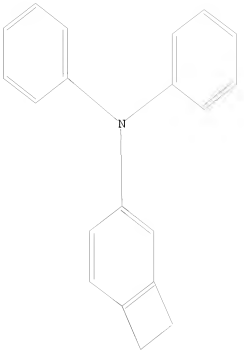


chain nodes :
7
ring nodes :
1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18 19 20 21
chain bonds :
6-7 7-8 7-14
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13 14-15 14-19
15-16 16-17 16-20 17-18 17-21 18-19 20-21
exact/norm bonds :
6-7 7-8 7-14 16-20 17-21 20-21
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 12-13 14-15 14-19
15-16 16-17 17-18 18-19

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom

L6 STRUCTURE UPLOADED

=> d
L6 HAS NO ANSWERS
L6 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l6
   REGlstRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 14:05:12 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   5874 TO ITERATE

 34.0% PROCESSED   2000 ITERATIONS   0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 112884 TO   122076
PROJECTED ANSWERS: 0 TO   0

L7   0 SEA SSS SAM L6

L8   0 L7

=> s l6 full
   REGlstRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 14:05:29 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 115812 TO ITERATE

100.0% PROCESSED 115812 ITERATIONS 8 ANSWERS
SEARCH TIME: 00.00.05

L9 8 SEA SSS FUL L6

L10 6 L9

=> file reg
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 0.50 413.91

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION
CA SUBSCRIBER PRICE 0.00 -4.10

FILE 'REGISTRY' ENTERED AT 14:05:49 ON 08 SEP 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 7 SEP 2009 HIGHEST RN 1181105-91-8
DICTIONARY FILE UPDATES: 7 SEP 2009 HIGHEST RN 1181105-91-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> s l9 1-
MISSING OPERATOR

=> d l9 1-
YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS' - CONTINUE? (Y)/N:y

6 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.

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ENTER ANSWER NUMBER OR RANGE (1):end

=> d his

     (FILE 'HOME' ENTERED AT 13:54:52 ON 08 SEP 2009)

     FILE 'CAPLUS' ENTERED AT 13:56:22 ON 08 SEP 2009
L1             1 S US20070096082/PN

     FILE 'REGISTRY' ENTERED AT 13:56:43 ON 08 SEP 2009

     FILE 'CAPLUS' ENTERED AT 13:56:48 ON 08 SEP 2009

     FILE 'REGISTRY' ENTERED AT 13:56:48 ON 08 SEP 2009

     FILE 'CAPLUS' ENTERED AT 13:57:24 ON 08 SEP 2009

     FILE 'REGISTRY' ENTERED AT 13:57:24 ON 08 SEP 2009
L2               STRUCTURE UPLOADED
L3             0 S L2
L4             4 S L2 FULL

     FILE 'CAPLUS' ENTERED AT 14:02:06 ON 08 SEP 2009
L5             5 S L4
L6               STRUCTURE UPLOADED
                 S L6

     FILE 'REGISTRY' ENTERED AT 14:05:12 ON 08 SEP 2009
L7             0 S L6

     FILE 'CAPLUS' ENTERED AT 14:05:12 ON 08 SEP 2009
L8             0 S L7
                 S L6

     FILE 'REGISTRY' ENTERED AT 14:05:29 ON 08 SEP 2009
L9             8 S L6 FULL

     FILE 'CAPLUS' ENTERED AT 14:05:34 ON 08 SEP 2009
L10            6 S L9 FULL

     FILE 'REGISTRY' ENTERED AT 14:05:49 ON 08 SEP 2009

     FILE 'CAPLUS' ENTERED AT 14:05:57 ON 08 SEP 2009

     FILE 'REGISTRY' ENTERED AT 14:06:02 ON 08 SEP 2009

=> d 19 1-
YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS' - CONTINUE? (Y)/N:y


      6 ANSWERS ARE AVAILABLE.  SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):end

=> s l6 full
FULL SEARCH INITIATED 14:06:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   115812 TO ITERATE

100.0% PROCESSED   115812 ITERATIONS                                 8 ANSWERS
SEARCH TIME: 00.00.05
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```
L11           8 SEA SSS FUL L6

=> d l11 1-
YOU HAVE REQUESTED DATA FROM 8 ANSWERS - CONTINUE? Y/(N):y

L11  ANSWER 1 OF 8  REGISTRY  COPYRIGHT 2009 ACS on STN
RN   1029851-65-7  REGISTRY
ED   Entered STN:  23 Jun 2008
CN   Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)-, polymer
     with N,N-bis(4-bromophenyl)-4-(1-methylpropyl)benzenamine and
     2,2'-(9,9-dioctyl-9H-fluorene-2,7-diyl)bis[1,3,2-dioxaborolane]  (CA INDEX
     NAME)
MF   (C33 H48 B2 O4 . C22 H21 Br2 N . C20 H15 Br2 N)x
CI   PMS
PCT  Polyether, Polyether formed, Polyother
SR   CA
LC   STN Files:   CA, CAPLUS

     CM   1

     CRN  852534-20-4
     CMF  C20 H15 Br2 N
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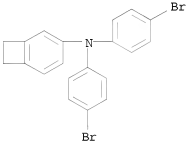


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     CRN  287976-94-7
     CMF  C22 H21 Br2 N
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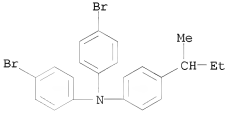


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     CM   3

     CRN  210347-49-2
     CMF  C33 H48 B2 O4
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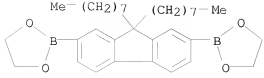
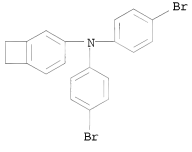


2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L11 ANSWER 2 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1010432-21-9 REGISTRY
ED Entered STN: 27 Mar 2008
CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)-, polymer with N,N-bis(4-bromophenyl)-4-(2-methylpropyl)benzenamine and 2,2'-(9,9-dioctyl-9H-fluorene-2,7-diyl)bis[1,3,2-dioxaborolane] (CA INDEX NAME)
MF (C33 H48 B2 O4 . C22 H21 Br2 N . C20 H15 Br2 N)x
CI PMS
PCT Polyether, Polyether formed, Polyother
SR CA
LC STN Files: CA, CAPLUS

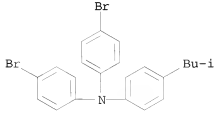
CM 1

CRN 852534-20-4
CMF C20 H15 Br2 N



CM 2

CRN 444796-12-7
CMF C22 H21 Br2 N



CM 3

CRN 210347-49-2
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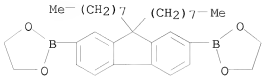
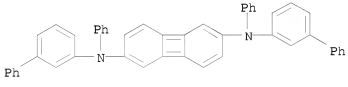


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

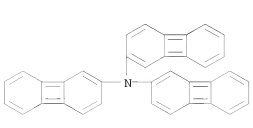
L11 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN
RN 941716-74-1 REGISTRY
ED Entered STN: 09 Jul 2007
CN 2,6-Biphenylenediamine, N2,N6-bis([1,1'-biphenyl]-3-yl)-N2,N6-diphenyl-
(CA INDEX NAME)
MF C48 H34 N2
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

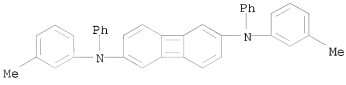
L11 ANSWER 4 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN
RN 941716-63-8 REGISTRY
ED Entered STN: 09 Jul 2007
CN 2-Biphenylenamine, N,N-di-2-biphenylenyl- (CA INDEX NAME)
MF C36 H21 N
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L11 ANSWER 5 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN
RN 941716-62-7 REGISTRY
ED Entered STN: 09 Jul 2007
CN 2,6-Biphenylenediamine, N2,N6-bis(3-methylphenyl)-N2,N6-diphenyl- (CA INDEX NAME)
MF C38 H30 N2
SR CA
LC STN Files: CA, CAPLUS



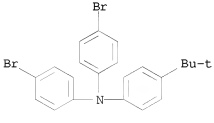
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L11 ANSWER 6 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN
RN 852534-23-7 REGISTRY
ED Entered STN: 20 Jun 2005
CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)-, polymer with N,N-bis(4-bromophenyl)-4-(1,1-dimethylethyl)benzenamine and 2,2'-[9,9-bis[(4-ethenylphenyl)methyl]-9H-fluorene-2,7-diyl]bis[1,3,2-dioxaborolane] (9CI) (CA INDEX NAME)
MF (C35 H32 B2 O4 . C22 H21 Br2 N . C20 H15 Br2 N)x
CI PMS
PCT Polyether, Polystyrene
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

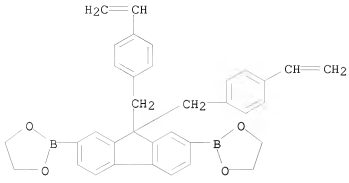
CM 1

CRN 852534-22-6
CMF C22 H21 Br2 N



CM 2

CRN 852534-21-5
CMF C35 H32 B2 O4



CM 3

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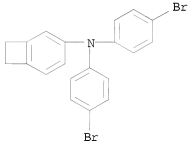
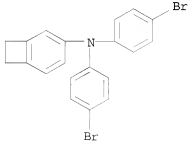
CMF C20 H15 Br2 N



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

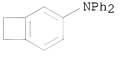
L11 ANSWER 7 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN
RN 852534-20-4 REGISTRY
ED Entered STN: 20 Jun 2005
CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-bis(4-bromophenyl)- (CA INDEX NAME)
MF C20 H15 Br2 N
CI COM
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L11 ANSWER 8 OF 8 REGISTRY COPYRIGHT 2009 ACS on STN
RN 852534-19-1 REGISTRY
ED Entered STN: 20 Jun 2005
CN Bicyclo[4.2.0]octa-1,3,5-trien-3-amine, N,N-diphenyl- (CA INDEX NAME)
MF C20 H17 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

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FILE COVERS 1907 - 8 Sep 2009 VOL 151 ISS 11
FILE LAST UPDATED: 7 Sep 2009 (20090907/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

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http://www.cas.org/legal/infopolicy.html

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substance identification.

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of databases have been updated to include new citing references
information.  This enhancement may impact record import into
database management software.  For additional information, refer
to NEWS 9.

=> s l11
L12          6 L11

=> d his

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     FILE 'REGISTRY' ENTERED AT 13:56:43 ON 08 SEP 2009

     FILE 'CAPLUS' ENTERED AT 13:56:48 ON 08 SEP 2009

     FILE 'REGISTRY' ENTERED AT 13:56:48 ON 08 SEP 2009

     FILE 'CAPLUS' ENTERED AT 13:57:24 ON 08 SEP 2009

     FILE 'REGISTRY' ENTERED AT 13:57:24 ON 08 SEP 2009
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L4             4 S L2 FULL

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L5             5 S L4
L6               STRUCTURE UPLOADED
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L7             0 S L6

     FILE 'CAPLUS' ENTERED AT 14:05:12 ON 08 SEP 2009
L8             0 S L7
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     FILE 'REGISTRY' ENTERED AT 14:05:29 ON 08 SEP 2009
L9             8 S L6 FULL

     FILE 'CAPLUS' ENTERED AT 14:05:34 ON 08 SEP 2009
L10            6 S L9 FULL

     FILE 'REGISTRY' ENTERED AT 14:05:49 ON 08 SEP 2009

     FILE 'CAPLUS' ENTERED AT 14:05:57 ON 08 SEP 2009

     FILE 'REGISTRY' ENTERED AT 14:06:02 ON 08 SEP 2009

     FILE 'CAPLUS' ENTERED AT 14:06:16 ON 08 SEP 2009

     FILE 'REGISTRY' ENTERED AT 14:06:23 ON 08 SEP 2009
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     FILE 'CAPLUS' ENTERED AT 14:07:11 ON 08 SEP 2009
L12             6 S L11

=> s l12 not l10
L13             0 L12 NOT L10

=> s ?cyclobutane (l) amine
         17244 ?CYCLOBUTANE
        309705 AMINE
        280942 AMINES
        467984 AMINE
                (AMINE OR AMINES)
L14         267 ?CYCLOBUTANE (L) AMINE

=> s l14 (l) diphenyl
        115149 DIPHENYL
           244 DIPHENYLS
        115291 DIPHENYL
                (DIPHENYL OR DIPHENYLS)
L15             6 L14 (L) DIPHENYL

=> s l15 not l12
L16             6 L15 NOT L12

=> d scan l16

L16   6 ANSWERS   CAPLUS  COPYRIGHT 2009 ACS on STN
CC    74-1 (Radiation Chemistry, Photochemistry, and Photographic and Other
      Reprographic Processes)
      Section cross-reference(s): 22
TI    Photochemical behavior of 1,2-diphenylcyclobutene in polar media
ST    photochem electron transfer diphenylcyclobutene polar media
IT    Photochemistry
      Photolysis
      Protonation and Proton transfer reaction
         (photochem. behavior of diphenylcyclobutene in polar media)
IT    Electron exchange and Charge transfer
         (photochem., photochem. behavior of diphenylcyclobutene in polar media)
IT    75-89-8, 2,2,2-Trifluoroethanol   102-69-2, Tripropylamine   623-26-7,
      p-Dicyanobenzene
      RL: PEP (Physical, engineering or chemical process); PROC (Process)
         (photochem. behavior of diphenylcyclobutene in polar media)
IT    3018-21-1P, 1,2-Diphenylcyclobutane   53429-18-8P   53429-19-9P,
      1,2-Diphenyl-1-methoxycyclobutane   64032-70-8P,
      N,N-Diethyl-1,2-diphenylcyclobutylamine   64032-71-9P,
      1,1',2,2'-Tetraphenylbicyclobutyl   159785-99-6P
      RL: PNU (Preparation, unclassified); PREP (Preparation)
         (photochem. behavior of diphenylcyclobutene in polar media)
IT    109-89-7, Diethylamine, reactions   110-91-8, Morpholine, reactions
      3306-02-3, 1,2-Diphenylcyclobutene
      RL: RCT (Reactant); RACT (Reactant or reagent)
         (photochem. behavior of diphenylcyclobutene in polar media)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> d l16 abs ibib hitstr 1-
YOU HAVE REQUESTED DATA FROM 6 ANSWERS - CONTINUE? Y/(N):y

L16  ANSWER 1 OF 6  CAPLUS  COPYRIGHT 2009 ACS on STN
AB    The authors report highly efficient and bright emission from exciplexes
      generated between hole-transporting amine derivs. and two
```

electron-transporting fluorene-dicyanophenyl (FCNP) copolymers. These exciplexes were formed at either the interface between tetraphenyldiamine-containing perfluorocyclobutane polymers and the FCNP copolymers, or in the blends of the FCNP copolymers with small mol. amine derivs. such as triphenylamine, N,N'-diphenyl -N,N'-bis(3-methylphenyl)-[1,1'-biphenyl]-4,4'-diamine, and N,N'-diphenyl-N,N'-bis(1-naphthyl)-[1,1'-biphenyl]-4,4'-diamine. The exciplex emission is largely dependent on the composition of the hole-transporting materials. The best device derived from these exciplexes demonstrated a very low turn-on voltage (2.8 V), a high external quantum efficiency (0.91%), and a high brightness of 3370 cd/m2. The desirable properties of these devices were attributed to the excellent electron transport ability of the FCNP copolymers.

ACCESSION NUMBER: 2002:415529 CAPLUS
DOCUMENT NUMBER: 137:192414
TITLE: Bright and efficient exciplex emission from light-emitting diodes based on hole-transporting amine derivatives and electron-transporting polyfluorenes
AUTHOR(S): Jiang, Xuezhong; Liu, Michelle S.; Jen, Alex K.-Y.
CORPORATE SOURCE: Department of Materials Science and Engineering, University of Washington, Seattle, WA, 98195, USA
SOURCE: Journal of Applied Physics (2002), 91(12), 10147-10152 CODEN: JAPIAU; ISSN: 0021-8979
PUBLISHER: American Institute of Physics
DOCUMENT TYPE: Journal
LANGUAGE: English
OS.CITING REF COUNT: 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
AB A review with 10 refs. Novel poly(silylenemethylene)s were prepared by ring-opening polymerization of 1,3-disilacyclobutanes, e.g., 1,3-dimethyl-1,3-diphenyl-1,3-disilacyclobutane, followed by a protodesilylation reaction with triflic acid. Reactions of the triflate derivs. with organomagnesium compds., LiAlH4, amines or alcs. gave functional substituted and branched poly(silylenemethylene)s, which may serve as suitable precursors for silicon carbide and Si/C/N-based materials.

ACCESSION NUMBER: 2000:349793 CAPLUS
DOCUMENT NUMBER: 133:267165
TITLE: Synthesis, functionalization and cross-linking reactions of poly(silylenemethylene)s
AUTHOR(S): Uhlig, Wolfram
CORPORATE SOURCE: Laboratorium fur Anorganische Chemie Eidgenossische Technische Hochschule Zurich ETH-Zentrum, Zurich, CH-8092, Switz.
SOURCE: Organosilicon Chemistry IV: From Molecules to Materials, [Lectures and Poster Contributions presented at the Muechner Silicontage], 4th, Muechen, Apr., 1998 (2000), Meeting Date 1998, 563-568. Editor(s): Auner, Norbert; Weis, Johann. Wiley-VCH Verlag GmbH: Weinheim, Germany. CODEN: 68ZMAL
DOCUMENT TYPE: Conference; General Review
LANGUAGE: English
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

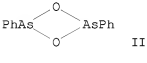
L16 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

AB Irradiation of 1,2-diphenylcyclobutene (DPCB) in methanol with light of longer wavelengths than 300 nm afforded the Me ethers, 1,2-diphenyl-1-methoxycyclobutane and 1-(α-methoxybenzyl)-1-phenylcyclopropane. In acetic acid and in a mixture of water and dioxane, the corresponding esters and alcs. were formed, resp. Irradiation of DPCB and diethylamine in hexane gave rise to N,N-diethyl-1,2-diphenylcyclobutylamine (EtNCB), 1,2-diphenylcyclobutane (DPCBH), and 1,1',2,2'-tetraphenylbicyclobutyl (TPBCB). Upon similar irradiation, DPCB and morpholine afforded N-(1,2-diphenylcyclobutyl)morpholine, DPCBH, and TPBCB. When diethylamine-N-d was used as an additive the deuterium was retained in the methine groups of compds. EtNCB, DPCBH, and TPBCB. When pulsed laser excitation of DPCB at 308 nm in acetonitrile was carried out in the presence of tripropylamine, diethylamine, p-dicyanobenzene, and 2,2,2-trifluoroethanol, the transient absorption band was observed at 480-500 nm in each case; the absorption was ascribed to the olefin radical anion, radical cation, or cation on the basis of the decay behavior under deaerated and aerated conditions. These findings confirm the mechanisms involving the initial protonation and electron transfer in hydroxylic solvents and amines, resp., in the excited singlet state of the olefin.

ACCESSION NUMBER: 1995:9153 CAPLUS
DOCUMENT NUMBER: 122:42437
ORIGINAL REFERENCE NO.: 122:7999a,8002a
TITLE: Photochemical behavior of 1,2-diphenylcyclobutene in polar media
AUTHOR(S): Sakuragi, Masako
CORPORATE SOURCE: Natl. Inst. Mater. Chem. Res., Tsukuba, 305, Japan
SOURCE: Busshitsu Kogaku Kogyo Gijutsu Kenkyusho Hokoku (1993), 1(3), 135-45
CODEN: BKGHE2; ISSN: 0919-7087
DOCUMENT TYPE: Journal
LANGUAGE: English

L16 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

GI



II

AB p-RC6H4As:NC6H4R1-p (I, R = H, Me, Br; R1 = H, OMe, Br, O2N) were prepared in 90-7% yields by treating p-RC6H4AsCl2 with p-R1C6H4NH2 in the presence of Et3N. Hydrolysis of I (R = R1 = H) with H2O gave 98% diarsadioxacyclobutane II.

ACCESSION NUMBER: 1987:459134 CAPLUS
DOCUMENT NUMBER: 107:59134
ORIGINAL REFERENCE NO.: 107:9825a,9828a
TITLE: Organoarsenic compounds with an arsenic-carbon double bond. II. Reaction of arylarsine dichlorides with primary aromatic amines
AUTHOR(S): Kokorev, G. I.; Yambushev, F. D.; Badrutdinov, Sh. Kh.
CORPORATE SOURCE: Pedagog. Inst., Kazan, USSR
SOURCE: Zhurnal Obshchei Khimii (1986), 56(9), 2058-61
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 107:59134
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L16 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
AB The main theoretical considerations for evaluation and calcn. of the preexponential coefficient of monomol. reactions were reviewed. The preexponential coeffs. of 28 such reactions (cis,trans isomerizations of α,β disubstituted ethylenes; racemization of a diphenyl derivative; and decompns. of amines, alcs., cyclobutane and its derivs., esters, ethers, and acetals) were calculated using the Eyring theory of absolute velocities; good agreement with experiment was observed. Activation energies and preexponential coeffs. for 450 monomol. reactions were presented.
ACCESSION NUMBER: 1966:420270 CAPLUS
DOCUMENT NUMBER: 65:20270
ORIGINAL REFERENCE NO.: 65:3720c-d
TITLE: Preexponential coefficient of monomolecular reactions
AUTHOR(S): Simon, Z.
CORPORATE SOURCE: Center Phys. Chem. Res., Bucharest, Rom.
SOURCE: Studii si Cercetari de Chimie (1966), 14(3), 173-234
CODEN: SCECA2; ISSN: 0039-3908
DOCUMENT TYPE: Journal
LANGUAGE: Romanian

L16 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
AB cf. C.A. 51, 17839d. In further attempts to demonstrate optical activity in the 1,2-bis(diphenylmethylene)cyclobutane system, the isomeric amines, cis- (I) and trans-1-(4-dimethylamino-α-phenylbenzylidene)-2-(diphenylmethylene) cyclobutane (II) were prepared Heat, light, Al2O3, and acid facilitated their interconversion; acid surprisingly favored the I configuration. The UV spectra of these and related compds., particularly trans-trans-1-(p-dimethylaminophenyl)-4-phenyl-1,3-butadiene (III), were discussed. trans-trans-1,4-Diphenyl-1,3-butadiene (IV) was chromatographed and recrystd., m. 153-3.5° (hexane). Crude III was a viscous red oil which gave only a few crystals after 3 wk. Its solution in C6H6 was extracted twice with concentrated HCl. The combined exts. shaken with excess aqueous NaOH and C6H6, the evaporated, and the solid crystallized gave yellow plates. These plates chromatographed on Al2O3 gave pure III, m. 183.5-4.0° (hexane). Solns. of III in CCl4 and hexane in the presence of air slowly decomposed In UV light crystals of III fluoresced intensely pale yellow-green, solns. in hexane pale blue, and those in alc., Me2CO, or CHCl3 pale yellow-green. For spectrophotometry, solns. of III were prepared in the dark. III (17.5 mg.) in 75 mL. hexane was illuminated 8 h., the solution evaporated, and the residual oil chromatographed in CCl4 on a column of Al2O3. Simultaneously pure III (17.5 mg.) in an equal amount of solvent was chromatographed on a 2nd column. Both columns were cut up and various fractions eluted with alc. These indicated that zone f of the first column contained cis-trans- and (or) trans-cis-amine, which yielded an oil which crystallized as the trans-trans-amine, λ 368 mμ. p-Lithio-N,N-dimethylaniline in 70 mL. Et2O prepared from 13.6 g. p-bromodimethylaniline and 0.95 g. Li, refluxed 0.5 h., 19.6 g. (±)-1-benzoyl-2-(diphenylmethylene)cyclobutane in 40 mL. C6H6 added, the solution refluxed 0.5 h., and the product steam distilled gave the (±)-olefinic alc. (V), m. 158-8.5° (alc.). Treatment of an Et2O solution of crude V with dry HCl or aqueous HCl gave a mixture of the HCl salts of I and II. The whole amount of V in CHCl3 shaken with dilute HCl, then with excess dilute NaOH, finally with H2O, and the CHCl3 solution evaporated gave 15.7 g. mixed I and II, m. 141-50°. Stored in

the dark during 1 mo, the mother liquor deposited 3.5 g. almost pure II, yellow rods, m.p. depending upon the rate of heating; placed in a bath at 181° II m. 182-3° (cyclohexane). I and II (10.5 g.) and 5.7 g. anhydrous (+)-camphor-10-sulfonic acid in 10 mL. C6H6, cooled, seeded, and left overnight gave 9.9 g. of the cis-(±)-camphor-10-sulfonate (VI), m. 187.5-90.0° (decomposition), [α]20D 17.8° (c 2, C6H6). Using pure II also gave VI. VI shaken with excess aqueous NaON and Et2O, the Et2O layer separated, washed, and evaporated gave pure I; when placed in a bath at 190° it melted rapidly. VI showed no optical activity when 4% solns. were examined in 4 dm. tubes. I in refluxing MeI cooled and left overnight gave I.MeI, m. 194-4.5° (decomposition), pale green fluorescence in UV light. Similarly obtained was II.MeI, bluish rods, m. 205-6° (decomposition). Ag (+)-camphor-10-sulfonate (580 mg.) and 974 mg. I.MeI each in 20 mL. MeOH gave 1.04 g. I-metho-(+)-camphor-10-sulfonate-3H2O (VII). VII evolved H2O at about 130° and m. 180°. Warmed with C6H6 it gave an opalescent solution which would not crystallize. The H2O of crystallization was removed to give a product, m. 212-13°. All crops of VII had [α]21D 14.8° (c 0.6, MeOH). When a solution of the first crop was passed through Dowex 1 X-2 the eluate was optically inactive. By the same method a 79% yield of the metho-(+)-camphor-10-sulfonate of II was obtained, m. 263-5° (decomposition), [α]22D 13.8° (c 1.6, MeOH). Ion exchange carried out as above gave an optically inactive eluate.

ACCESSION NUMBER:	1960:16752 CAPLUS	
DOCUMENT NUMBER:	54:16752	
ORIGINAL REFERENCE NO.:	54:3310b-i	
TITLE:	Experiments in the cyclobutane series. V. cis- and trans-1-(4-Dimethylamino-α-phenylbenzylidene)-2-(diphenylmethylene)cyclobutane	
AUTHOR(S):	Kipping, F. B.; Wren, J. J.	
SOURCE:	Journal of the Chemical Society (1959) 2465-73 CODEN: JCSOA9; ISSN: 0368-1769	
DOCUMENT TYPE:	Journal	
LANGUAGE:	Unavailable	
OS.CITING REF COUNT:	1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

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     FILE 'CAPLUS' ENTERED AT 13:56:48 ON 08 SEP 2009

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     FILE 'REGISTRY' ENTERED AT 13:57:24 ON 08 SEP 2009
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     FILE 'CAPLUS' ENTERED AT 14:06:16 ON 08 SEP 2009

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     FILE 'CAPLUS' ENTERED AT 14:07:11 ON 08 SEP 2009
L12            6 SEA FILE=CAPLUS SPE=ON  PLU=ON  L11
L13            0 SEA FILE=CAPLUS SPE=ON  PLU=ON  L12 NOT L10
L14          267 SEA FILE=CAPLUS SPE=ON  PLU=ON  ?CYCLOBUTANE (L) AMINE
L15            6 SEA FILE=CAPLUS SPE=ON  PLU=ON  L14 (L) DIPHENYL
L16            6 SEA FILE=CAPLUS SPE=ON  PLU=ON  L15 NOT L12
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FULL ESTIMATED COST                                31.22     649.37

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                -4.92      -9.02

STN INTERNATIONAL LOGOFF AT 14:15:05 ON 08 SEP 2009
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